



## DECLARATION IN ORIGINAL APPLICATION

U.S. Attorney Docket No.: SP02-191

As a below named inventor, I declare that:

My residence, Post Office address and citizenship are as stated below next to my name.

I believe I am the original, first and sole inventor (if only one name is listed below) or an original, first and joint inventor (if plural names are listed below) of the subject matter which is claimed and for which a patent is sought on the invention entitled **Method of Growing Oriented Calcium Fluoride Single Crystals**.

The specification of which (check only one item below):

- ☐ is attached hereto
- ☒ was filed as United States Application Serial No. 10/652,013 on August 29, 2003 and was amended on (if applicable)
- ☐ was filed as PCT international application number , on , and was amended under PCT Article 19 on (if applicable).

I hereby state that I have reviewed and understand the contents of the above-identified specification, including the claims, as amended by any amendment referred to above.

I acknowledge the duty to disclose information which is material to the examination of this application in accordance with Title 37, Code of Federal Regulations, § 1.56.

I hereby claim foreign priority benefits under Title 35, United States Code, § 119(a)-(d) or 365(b) of any foreign application(s) for patent or inventor's certificate or 365(a) of any PCT international application which designated at least one country other than the United States, listed below and have also identified below any foreign application for patent or inventor's certificate, on the same subject matter, having a filing date before that of the application on which priority is claimed:

- |                          |                 |                         |                     |
|--------------------------|-----------------|-------------------------|---------------------|
| <input type="checkbox"/> | <b>Country:</b> | <b>Application No.:</b> | <b>Filing Date:</b> |
| <input type="checkbox"/> | <b>NONE</b>     |                         |                     |

I hereby claim the benefit under Title 35 United States Code § 119(e) and § 120 of any United States application(s) or 365(c) of any PCT international application designating the United States listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in the prior United States application in the manner provided by the first paragraph of Title 35 United States Code § 112, I acknowledge the duty to disclose material information as defined in Title 37 Code of Federal Regulations, § 1.56 which occurred between the filing date of the prior application and the national or PCT international filing date of this application:

- |                                     |                                    |                      |                        |
|-------------------------------------|------------------------------------|----------------------|------------------------|
| <input checked="" type="checkbox"/> | <b>Provisional No.:</b> 60/408,154 | <b>Filed:</b> 9/3/02 | <b>Status:</b> Pending |
|                                     | 60/408,116                         | 9/3/02               | Pending                |
| <input type="checkbox"/>            | <b>Application No.:</b>            | <b>Filed:</b>        | <b>Status:</b>         |
|                                     | <b>PCT Application No:</b>         | <b>Filed:</b>        | <b>Status:</b>         |
| <input type="checkbox"/>            | <b>NONE</b>                        |                      |                        |

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U.S. Attorney Docket No.: SP02-191

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

**Full Name of Inventor:** Qiao Li  
**Resident Address:** 295 Turnpike Road, Apt. 517, Westborough, MA 01591  
**Post Office Address:** same  
**Citizenship:** China permanent US resident

DATE: \_\_\_\_\_

Qiao Li

**Full Name of Inventor:** Frederick E. Noll  
**Resident Address:** 21 Larchmont Avenue, Horseheads, NY 14845  
**Post Office Address:** same  
**Citizenship:** United States

DATE: Oct. 14, 2003

*Frederick E. Noll*  
Frederick E. Noll

**Full Name of Inventor:** Gail A. Rodriguez  
**Resident Address:** 7545 Telegraph Road, Bath, NY 14810  
**Post Office Address:** same  
**Citizenship:** United States

DATE: \_\_\_\_\_

Gail A. Rodriguez

**Full Name of Inventor:** William R. Rosch  
**Resident Address:** 54 Steeple View, Sturbridge, MA 01566  
**Post Office Address:** same  
**Citizenship:** United States

DATE: \_\_\_\_\_

William R. Rosch

## DECLARATION IN ORIGINAL APPLICATION

U.S. Attorney Docket No.: SP02-191

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**Full Name of Inventor:** Qiao Li  
**Resident Address:** 295 Turnpike Road, Apt. 517, Westborough, MA 01591  
**Post Office Address:** same  
**Citizenship:** China permanent US resident

DATE: \_\_\_\_\_

\_\_\_\_\_  
Qiao Li

**Full Name of Inventor:** Frederick E. Noll  
**Resident Address:** 21 Larchmont Avenue, Horseheads, NY 14845  
**Post Office Address:** same  
**Citizenship:** United States

DATE: Oct. 19, 2003\_\_\_\_\_  
*Frederick E. Noll*  
Frederick E. Noll

**Full Name of Inventor:** Gail A. Rodriguez  
**Resident Address:** 7545 Telegraph Road, Bath, NY 14810  
**Post Office Address:** same  
**Citizenship:** United States

DATE: Oct 27, 2003\_\_\_\_\_  
*Gail A. Rodriguez*  
Gail A. Rodriguez

**Full Name of Inventor:** William R. Rosch  
**Resident Address:** 54 Steeple View, Sturbridge, MA 01566  
**Post Office Address:** same  
**Citizenship:** United States

DATE: \_\_\_\_\_

\_\_\_\_\_  
William R. Rosch

## DECLARATION IN ORIGINAL APPLICATION

U.S. Attorney Docket No.: SP02-191

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**Full Name of Inventor:**

Qiao Li

**Resident Address:**

295 Turnpike Road, Apt. 517, Westborough, MA 01591

**Post Office Address:**

same

**Citizenship:**

China permanent US resident

DATE: Oct. 28, 2003  
\_\_\_\_\_  
Qiao Li**Full Name of Inventor:**

Frederick E. Noll

**Resident Address:**

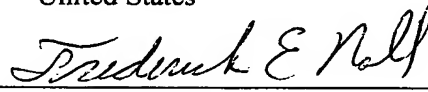
21 Larchmont Avenue, Horseheads, NY 14845

**Post Office Address:**

same

**Citizenship:**

United States

DATE: Oct. 14, 2003  
\_\_\_\_\_  
Frederick E. Noll**Full Name of Inventor:**

Gail A. Rodriguez

**Resident Address:**

7545 Telegraph Road, Bath, NY 14810

**Post Office Address:**

same

**Citizenship:**

United States

DATE: \_\_\_\_\_

\_\_\_\_\_  
Gail A. Rodriguez**Full Name of Inventor:**

William R. Rosch

**Resident Address:**

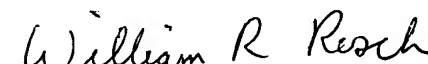
54 Steeple View, Sturbridge, MA 01566

**Post Office Address:**

same

**Citizenship:**

United States

DATE: 10/27/2003  
\_\_\_\_\_  
William R. Rosch

**Full Name of Inventor:**

Paul M. Schermerhorn

**Resident Address:**

4182 Meads Creek Road, Painted Post, NY 14870

**Post Office Address:**

same

**Citizenship:**

United States

**DATE:**

11/04/03

  
Paul M. Schermerhorn

**Full Name of Inventor:**

Shane M. Stephens

**Resident Address:**

100 Monkey Run Road, Port Crane, NY 13833

**Post Office Address:**

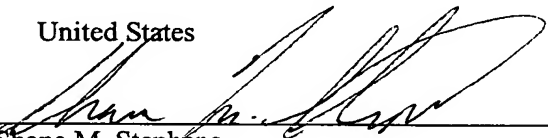
same

**Citizenship:**

United States

**DATE:**

01/05/04

  
Shane M. Stephens



Attorney Docket No.: SP02-191

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

**Applicant(s):** Li, et al  
**Serial No.:** 10/652,013  
**Filed:** August 29, 2003  
**For:** Method of Growing Oriented Calcium  
Fluoride Single Crystals

**COMBINED  
CERTIFICATE UNDER  
37 C.F.R. § 3.73(b)  
and  
POWER OF ATTORNEY**

Assistant Commissioner for Patents  
Washington, DC 20231

**CERTIFICATE UNDER 37 C.F.R. § 3.73(b)**

**CORNING INCORPORATED**, a New York corporation, certifies that it is the assignee of the entire right, title and interest in the patent application identified above by virtue of an assignment from the inventor(s) of the patent application identified above. A true copy of the unrecorded Assignment is attached hereto.

The undersigned has reviewed the above referenced assignment of the patent application identified above and, to the best of the undersigned's knowledge and belief, title is in the assignee identified above.

The undersigned is empowered to sign this certificate on behalf of the assignee.

I hereby declare that all statements made herein of my own knowledge are true, and that all statements made on information and belief are believed to be true; and further, that these statements are made with the knowledge that willful false statements, and the like so made, are punishable by fine or imprisonment, or both, under Section 1001, Title 18 of the United States Code, and that such willful false statements may jeopardize the validity of the application or any patent issuing thereon.

(U.S.)

Attorney Docket No.: SP02-191

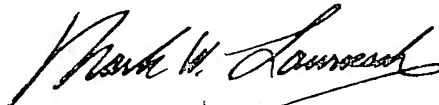
**POWER OF ATTORNEY BY ASSIGNEE**

CORNING INCORPORATED, the assignee of the full and exclusive right, title and interest in and to the accompanying application for United States Letters Patent entitled **METHOD OF GROWING ORIENTED CALCIUM FLUORIDE SINGLE CRYSTALS** and executed by Qiao Li, Frederick E. Noll, Gail A. Rodriguez, William R. Rosch, Paul M. Schermerhorn, Shane M. Stephens on 10/28/03, 10/14/03, 11/7/03, 10/28/03, 11/4/03 and 10/28/03 respectively, appoints the practitioners associated with the Customer Number provided below (i.e., the practitioners associated with the Intellectual Property Department, Corning Incorporated) to prosecute this application and to transact all business in the U.S. Patent and Trademark Office connected therewith. Please direct all correspondence to Walter M. Douglas at the address associated with that Customer Number.

<b>Customer Number: 22928</b>
-------------------------------

CORNING INCORPORATED

Date: 1/7/04

By   
Mark W. Lauroesch  
Assistant Secretary

## ASSIGNMENT

FOR VALUE RECEIVED, I, as a below named inventor, hereby sell, assign and transfer unto Corning Incorporated, a corporation organized and existing under the laws of the State of New York, having its principal place of business at Corning, New York, (hereinafter CORNING), as assignee, and unto its successors, assigns and legal representatives, the entire right, title and interest, for all countries, in and to certain inventions relating to a **Method of Growing Oriented Calcium Fluoride Single Crystals**, such inventions being generally described in an application for Letters Patent of the United States executed on

DATE October 28, 2003  
DATE October 14, 2003  
DATE November 7, 2003  
DATE October 28, 2003  
DATE November 4, 2003  
DATE October 28, 2003

and in any future patent applications claiming the benefit of the filing date of that application, and all the rights and privileges under any and all Letters Patents that may be granted therefore.

I request that any and all patents for said inventions be issued to CORNING, its successors, assigns and legal representatives, or to such nominees as CORNING may designate.

I agree that, when requested, I will, without charge to CORNING and at CORNING's expense, sign all papers, take all rightful oaths, and do all acts which may be necessary, desirable or convenient for securing and maintaining patents for said inventions in any and all countries and for vesting title thereto in CORNING, its successors, assigns and legal representatives or nominees.

I authorize and empower CORNING, its successors, assigns and legal representatives or nominees, to invoke and claim for any application for patent or other form of protection for said inventions filed by it or them, the benefit of the right of priority provided by the International Convention for the Protection of Industrial Property, as amended, or by any convention which may henceforth be substituted for said Convention or entered as a supplement to, and to invoke and claim such right of priority without further written or oral authorization.

I hereby consent that a copy of this assignment shall be deemed a full legal and formal equivalent of any assignment, consent to file or like document which may be required in any country for any purpose and more particularly in proof of the right of CORNING, or its successors, assigns and legal representatives or nominees to claim the aforesaid benefit of the right of priority provided by the International Convention for the Protection of Industrial Property, as amended, or by any convention which may henceforth be substituted for it or entered as a supplement to it.

I covenant with CORNING, its successors, assigns and legal representatives or nominees, that the rights and property herein conveyed are free and clear of any encumbrance, and that I have full right to convey the same as herein expressed.



Signed at Corning, NY or \_\_\_\_\_, this

\_\_\_\_\_  
Date

Oct 14, 2003

\_\_\_\_\_  
Qiao Li

Frederick E. Noll

\_\_\_\_\_  
Date

Nov 7, 2003

\_\_\_\_\_  
Frederick E. Noll

Gail A. Rodriguez

\_\_\_\_\_  
Date

\_\_\_\_\_  
Gail A. Rodriguez

\_\_\_\_\_  
Date

\_\_\_\_\_  
William R. Rosch

\_\_\_\_\_  
Date

\_\_\_\_\_  
Paul M. Schermerhorn

\_\_\_\_\_  
Date

\_\_\_\_\_  
Shane M. Stephens

State of New York)

: ss.

County of Steuben)

On the \_\_\_\_ day of \_\_\_\_\_ 2003, before me personally came Qiao Li known to be the person described in and who executed the foregoing instrument, and acknowledged that they executed the same.

\_\_\_\_\_  
Notary Public

State of New York)

: ss.

County of Steuben)

On the \_\_\_\_ day of \_\_\_\_\_ 2003, before me personally came Frederick E. Noll known to be the person described in and who executed the foregoing instrument, and acknowledged that they executed the same.

\_\_\_\_\_  
Notary Public

State of New York)

: ss.

County of Steuben)

On the 7<sup>th</sup> day of November 2003, before me personally came Gail A. Rodriguez known to be the person described in and who executed the foregoing instrument, and acknowledged that they executed the same.

**ANNA MARIE DAWLEY**  
Notary Public, State Of New York  
No. #01DA6085499  
Qualified in St. Lawrence County  
Commission Expires Dec. 30, 2006

Anna Marie Dawley  
Notary Public

Signed at Corning, NY or \_\_\_\_\_, this

Date	Qiao Li
<u>Oct 14, 2003</u>	<u>Frederick E. Noll</u>
Date	Frederick E. Noll
_____	_____
Date	Gail A. Rodriguez
_____	_____
Date	William R. Rosch
_____	_____
Date	Paul M. Schermerhorn
_____	_____
Date	Shane M. Stephens

State of New York)

: ss.

County of Steuben)

On the \_\_\_\_\_ day of \_\_\_\_\_ 2003, before me personally came Qiao Li known to be the person described in and who executed the foregoing instrument, and acknowledged that they executed the same.

\_\_\_\_\_  
Notary Public

State of New York)

: ss.

County of Steuben)

On the 14<sup>th</sup> day of October 2003, before me personally came Frederick E. Noll known to be the person described in and who executed the foregoing instrument, and acknowledged that they executed the same.

\_\_\_\_\_  
Notary Public

TERRI L. GUSTIN  
TERRI L. GUSTIN  
Notary Public, State of New York  
No. 01GU6064115  
Qualified in Chemung County  
Commission Expires September 17, 20 05

State of New York)

: ss.

County of Steuben)

On the \_\_\_\_\_ day of \_\_\_\_\_ 2003, before me personally came Gail A. Rodriguez known to be the person described in and who executed the foregoing instrument, and acknowledged that they executed the same.

\_\_\_\_\_  
Notary Public

Signed at Corning, NY or \_\_\_\_\_, this

Oct. 28, 2003  
Date

Qiao Li  
Qiao Li

Oct 14, 2003  
Date

Frederick E. Noll  
Frederick E. Noll

Date

Gail A. Rodriguez

Oct 28, 2003  
Date

William R. Rosch  
William R. Rosch

Nov. 04, 2003  
Date

Paul M. Schermerhorn  
Paul M. Schermerhorn

Oct. 28, 2003  
Date

Shane M. Stephens  
Shane M. Stephens

State of ~~New York~~ <sup>Mass</sup>

County of ~~Steuben~~ <sup>Worcester</sup>

On the 28<sup>th</sup> day of October 2003, before me personally came Qiao Li known to be the person described in and who executed the foregoing instrument, and acknowledged that they executed the same.

Yvonne R. Little  
Notary Public

State of New York)  
: ss.  
County of Steuben)

**YVONNE R. LITTLE**  
Notary Public

**My Commission Expires February 5, 2010**

On the \_\_\_\_ day of \_\_\_\_\_ 2003, before me personally came Frederick E. Noll known to be the person described in and who executed the foregoing instrument, and acknowledged that they executed the same.

see original  
Notary Public

State of New York)  
: ss.  
County of Steuben)

On the \_\_\_\_ day of \_\_\_\_\_ 2003, before me personally came Gail A. Rodriguez known to be the person described in and who executed the foregoing instrument, and acknowledged that they executed the same.

\_\_\_\_\_  
Notary Public

mass  
State of ~~New York~~  
Worcester  
County of ~~Steuben~~

On the 28<sup>th</sup> day of October 2003, before me personally came **William R. Rosch** known to be the person described in and who executed the foregoing instrument, and acknowledged that they executed the same.

Yvonne R. Little  
Notary Public

State of New York)  
: ss.  
County of Steuben)

**YVONNE R. LITTLE**  
Notary Public  
My Commission Expires February 5, 2010

On the 4<sup>th</sup> day of November 2003, before me personally came **Paul M. Schermerhorn** known to be the person described in and who executed the foregoing instrument, and acknowledged that they executed the same.

Colleen E. Doherty  
Notary Public

mass  
State of ~~New York~~  
Worcester  
County of ~~Steuben~~

**COLLEEN E. DOHERTY**  
Notary Public, State of New York  
Qualified in Steuben County No. 01DO6040673  
My Commission Expires April 24, 2006

On the 28<sup>th</sup> day of October 2003, before me personally came **Shane M. Stephens** known to be the person described in and who executed the foregoing instrument, and acknowledged that they executed the same.

Yvonne R. Little  
Notary Public

**YVONNE R. LITTLE**  
Notary Public  
My Commission Expires February 5, 2010